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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference PD020106				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/EP 03/12261				International filing date 03.11.2003	(day/month/year)	Priority date (day/month/year) 15.11.2002		
International Patent Classification (IPC) or both H04N5/445				oth national classification	and IPC			
	Applicant THOMSON LICENSING S.A. et al.							
			OLIVOING S.A. et al.					
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2.	. This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of 3 sheets.							
				-				
3.	This		t contains indications rel	ating to the following it	ems:			
	I	×	Basis of the opinion					
	11		Priority					
	111		•		ovelty, inventive step	o and industrial applicability		
	IV		Lack of unity of invention					
	V 🛮 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				inventive step or industrial applicability;			
	VI		Certain documents cite					
	VII		Certain defects in the in	nternational application	1			
	VIII		Certain observations or	n the international app	lication			
Date	of our	missis	n of the demand		Data of the control			
Date of submission of the demand				•	Date of completion of	Tinis report		
17.05.2004					04.11.2004			
Name and mailing address of the international preliminary examining authority:				ı	Authorized Officer	ndina Palanta.		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/12261

I. Ba	sis of	f the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages					
	1-10	0	as originally filed				
	Cla	ims, Numbers					
	1-9	iiii3, ituiiibei3	received on 23.10.2004 with letter of 22.10.2004				
	1-9		received on 25.10.2004 with letter of 22.10.2004				
	Dra	wings, Sheets					
	1/9-	9/9	as originally filed				
With regard to the language, all the elements marked above were available or furnished to this Author language in which the international application was filed, unless otherwise indicated under this item.							
	The	nese elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	nslation furnished for the purposes of international preliminary examination (under 3).				
3.	Witl inte	n regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequer	ntly to this Authority in computer readable form.				
		The statement that to in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1-9
No: Claims

Inventive step (IS) Yes: Claims 1-9

No: Claims

Industrial applicability (IA) Yes: Claims 1-9

No: Claims

2. Citations and explanations

see separate sheet



V. Reasoned statement

1. Reference is made to the following document:

D1: US 2002/063681 A1 (CHEN MILTON ET AL) 30 May 2002

2. Claim 1:

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D1 discloses a method for composition of subtitles for audio/video presentations (see "picture layer, layer for oral voice, first and second instrument" in paragraph [0017]), wherein data streams containing video, audio and subtitle information are transferred from a storage medium (see "database"), comprising the step of retrieving from said storage medium subtitle layer data, the subtitle layer data containing graphic subtitle elements (see "subtitle layer" in par. [0022]).

The claimed subject-matter thus differs from the disclosure of D1 in that the claimed method further comprises the steps of extracting from said retrieved subtitle layer data cropping information, and of enabling automatic cropping of parts of the subtitle elements to be displayed, wherein the cropped parts are defined by said cropping information.

D1 does not appear to offer any alternative to the displaying of the whole subtitle information (see Fig. 4A-4E).

Even if D1 mentions the possibility for the user to modify the size and position of an image object 256 (see par. [0027]), and although it is well known from numerous editing software (e.g. Microsoft Works' Picturelt!) to allow a cropping function on such an image layer as well, some manual input from a user is still required in the prior art whereas, in the present application, the cropping information is directly extracted from the subtitle layer data that has been pre-recorded in the storage medium.

The subject-matter of claim 1 is therefore considered to satisfy the conditions set out in Article 33 PCT.

3. Claims 5 and 9:

The same reasoning applies to these independent claims directed to the corresponding apparatus (claim 5) and optical storage medium (claim 9).

4. Claim 7:

The particular arrangement for the composition of subtitles as claimed herein is neither disclosed nor fairly suggested by the cited documents.

INTERNATIONAL PRELIMINARY

International application No. PCT/EP 03/12261

EXAMINATION REPORT - SEPARATE SHEET

5. Claims 2-4, 6 and 8:

> These claims are dependent claims and thus fulfill the requirements of the PCT as well.

- 6. Corrections should be made:
 - in Fig. 5: "SVCA" should read "SCVA";
 - in Fig. 8: the bidirectional arrow should link "AVSGL" with "SL" (see p. 8, II. 27-30).



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- Method for composition of subtitles for audio/video presentations, wherein subtitle information is separate from audio/video material, and subtitle information is transferred from a network or a storage medium, such as a disc, characterized in
 - using one or more subtitle layers; and
 - cropping parts of the subtitles of a layer or layers before displaying them, so that only a selected (RHC,RVC,RCH,RCW) part of the transferred subtitles is displayed at a time.
- Method according to claim 1, wherein the colors of a
 specified (SCHA, SCVA, SCH, SCW) part of the subtitles may be modified.
 - 3. Method according to claim 1 or 2, wherein subtitles may be interactively moved, cropped or highlighted, or the colors of subtitles be interactively modified by a user.
 - 4. Method according to any of the previous claims, wherein the subtitles may contain graphics.
 - 5. Method according to any of the previous claims, wherein the AV material and the subtitles comply with the DVB-ST standard.
- 6. Apparatus for composition of subtitles, the apparatus mixing and switching video and graphics data, the data being read from a storage medium or received from a network and comprising still picture data or MPEG video data, data for at least two layers of subtitles or animations, and optionally data for non-synchronized graphics, the apparatus comprising

 a mixer (MX) that may superimpose video data of a

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back layer, at least two middle layers and a front layer;

- a mixer and scaler (MXS) that may superimpose video data of a back layer, a middle layer and a front layer, the mixer and scaler (MXS) providing its output data to the mixer (MX);
- a video decoder (MVDec) and/or a still picture decoder (SPDec), wherein the output data of either the video decoder or the still picture decoder may be switched (s1) to the mixer and scaler (MXS);
- at least two simultaneously working decoders
 (AVSGDec1,AVSGDec2) for synchronized graphics or
 subtitles, wherein the output of each of the decoders
 may be switched (s2,s3) to either the mixer (MX) or
 the mixer and scaler (MXS), and wherein a decoder
 (AVSGDec1,AVSGDec2) may select a part
 (RHC,RVC,RCH,RCW) of its input data to be output for
 display;
- a renderer for the non-synchronized graphics, providing data to the mixer (MX).
- 7. Apparatus according to claim 6, wherein a decoder (AVSGDec1,AVSGDec2) may apply a different color-look-up table to a specified (SCHA,SCVA,SCH,SCW) part of a subtitle layer.
- 8. Apparatus according to claim 6 or 7, comprising a subtitle decoder (ST-DEC) that is capable of superseding default subtitle parameters (DD) with other subtitle parameters (SD) generated upon user action, for interactively modifying or highlighting subtitles.
- 9. Apparatus according to any of claims 6-8, wherein the data comply with the DVB-ST standard.